

GV

Approved Stock Form—State Publishing Co., Helena, Montana—38687

File No. ....

T. 33 R. 42

DUPLICATE

County LIBERTY

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

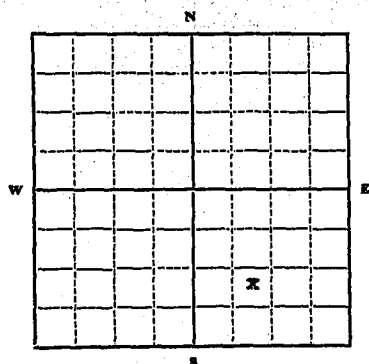
RECEIVED  
DEC 27 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. HERBERT FENGER, of SALATA  
(Name of Appropriator) (Address) (Town)  
County of LIBERTY State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 SE 1/4 Sec. 26 T. 33 R. 42

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based Watering livestock. Cattle and hogs on pasture and feed lot.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Fall of 1944. It has been used steadily ever since.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Five gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Does not apply.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1 3/4" cylinder type pump, with 150' of 2" drop pipe.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater The well was started in the summer of 1944, and completed in October of 1944.
8. The depth of water table 151'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled 5" hole, 151' deep.
10. The estimated amount of groundwater withdrawn each year 146,000 to 200,000 gal.
11. The log of formations encountered in the drilling of each well if available 10' gumbo, 100' blue clay, 5' quicksand, with water. (Cased off.) 5' blue clay, 5 to 10' of Quicksand, with water, blue clay to the top of the sandstone, with the water just below.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None.

Signature of Owner Herb Fenger

Date 12/23/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

13480

84217

STATE OF MONTANA } ss.  
County of Liberty,

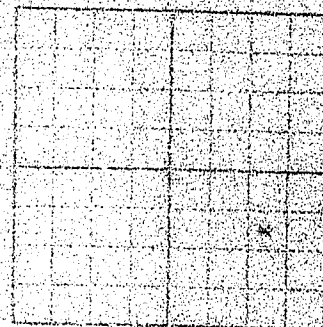
Filed Dec. 26 1963

at 10:45 o'clock A. M.

By Gilbert K. Krenner County Clerk

By David Lee Krenner Deputy

Fee \$ 2.00



NOTARIAL PUBLIC  
STATE OF MONTANA  
COUNTY OF LIBERTY  
My Comm. Expires Dec. 31, 1964

Subscribed and sworn to before me this 26th day of December, 1963, at the County of Liberty, State of Montana.

Notary Public

My Comm. Expires Dec. 31, 1964

Notary Public

My Comm. Expires Dec. 31, 1964

Notary Public

My Comm. Expires Dec. 31, 1964

Notary Public

My Comm. Expires Dec. 31, 1964

Notary Public

My Comm. Expires Dec. 31, 1964

Notary Public

My Comm. Expires Dec. 31, 1964

Notary Public

File No.

DUPLICATE

T. 33 N. R. 42 E.

County LIBERTY

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

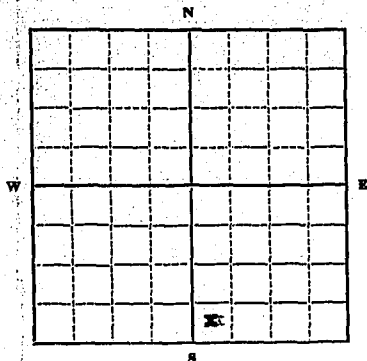
RECEIVED  
DEC 27 1963

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. HERBERT FENGER, of GALATA  
(Name of Appropriator) (Address) (Town)  
County of LIBERTY State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SW  $\frac{1}{4}$  Sec. 26, T. 33, R. 42.

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based. Household use, and irrigation for yard, flowers, and garden.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. fall of 1955. It has been used continuously ever since.
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 6 (six) gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Yard and garden around both sets of buildings in sec. 26, T. 33, R. 42.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. 5" cylinder type pump, with 155' of 1 1/2" drop pipe.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. The well was started and completed in Nov. of 1955, approximate finishing date Nov. 8.
8. The depth of water table. 159'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Drilled 5" hole 159' deep.
10. The estimated amount of groundwater withdrawn each year. 52,000 to 82,000 gal.
11. The log of formations encountered in the drilling of each well if available. 10' gumbo, 100' blue clay, 6' quicksand, with water (cased off), 6' blue clay, 5 to 10' quicksand and water, blue clay the remainder of the way to the top of the sandstone, with the water just below.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None.

Signature of Owner

*Herb Fenger*

Date 12/23/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

13481

STANDARD  
L.H. 10

84218

STATE OF MONTANA  
County of Liberty,

Filed Dec 26 19 63

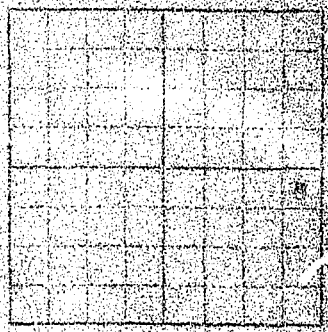
at Liberty O'clock 9 M.

By Gilbert County Clerk

By Dean Deputy

Fee \$ 2.00

RECEIVED  
COUNTY CLERK  
LIBERTY  
MONTANA  
DEC 26 1963



1. The survey was made by the County Clerk of Liberty, Montana, on the 26th day of December, 1963, for the purpose of recording the same.

2. The survey was made by the County Clerk of Liberty, Montana, on the 26th day of December, 1963, for the purpose of recording the same.

3. The survey was made by the County Clerk of Liberty, Montana, on the 26th day of December, 1963, for the purpose of recording the same.

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9. The survey was made by the County Clerk of Liberty, Montana, on the 26th day of December, 1963, for the purpose of recording the same.

10. The survey was made by the County Clerk of Liberty, Montana, on the 26th day of December, 1963, for the purpose of recording the same.



GW

Approved Stock Form—State Publishing Co., Helena, Montana—38687

File No.

T 33 N R 4 East

DUPLICATE

County Liberty

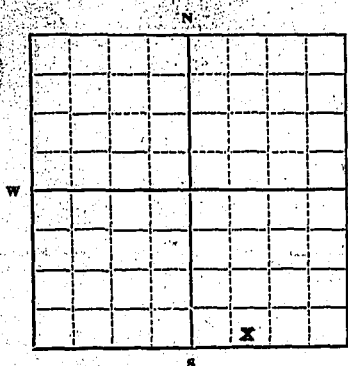
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964  
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Ted Gibson, of Chester,  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana,  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 35, T. 33N. R. 4E

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based.  
water for household and livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.  
Been in continuous use since approximately 1920.
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 4 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.  
Not used for irrigation.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.  
Cylinder type pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Approximately 1920.
8. The depth of water table. 127 feet.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 127 feet of 6" galvanized casing with 1 1/2" tubing inside for withdrawal.
10. The estimated amount of groundwater withdrawn each year. 200,000 gallons.
11. The log of formations encountered in the drilling of each well if available.  
Not available.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.  
No further information available.

Signature of Owner Ted Gibson

Date Dec 26, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

44223

1. The date of commencement and completion of the work is as follows:

2. The date of commencement and completion of the work is as follows:

3. The date of commencement and completion of the work is as follows:

4. The date of commencement and completion of the work is as follows:

STATE OF MONTANA,  
County of Liberty.

Filed Dec 26 1963

at 4:30 o'clock P.M.

By John Green County Clerk

For John Green Register

Fee \$ 2.00

84232

Dec 26 1963

# GROUNDWATER INDEX

Page 1 of 1

County Liberty

Twp. 33 N

Rge. 5E

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GV

File No. \_\_\_\_\_

DUPLICATE

T. 33 N. R. 5 E

County Liberty

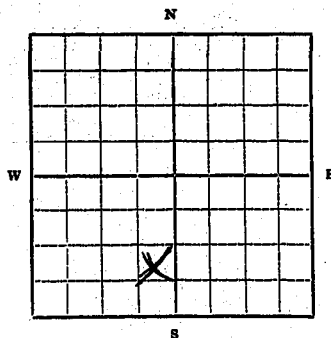
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Declaration of Vested Groundwater Rights**  
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
JAN 31 1962

STATE ENGINEER

1. Gordon E. Lehey, of Chuteau  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S 1/4 Sec. 3 T. 33 R. 5 E

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based drinking water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Aug. 10, 1960  
used 12-200 days a year

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 gals. per min.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Engine driven pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater August 1, 1960 to August 10, 1960

8. The depth of water table 120 ft. from surface

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater  
Cased with 6 in casing (depth 143 ft.) (3 in pipe and cylinder)

10. The estimated amount of groundwater withdrawn each year 150,000 gals.

11. The log of formations encountered in the drilling of each well if available Top of ground to 40 ft. sandy yellow clay some gravel 40 ft - 100 ft. black clay 105-110 ft. sand black shale 115-130 ft. gray coarse sand, 130 to 142 ft. water on sand

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record none

Signature of Owner Gordon E. Lehey

Date Jan. 24, 1962

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

1294

By \_\_\_\_\_ Deputy

COB. \$2

File No. \_\_\_\_\_

DUPLICATE

T. 33 N. R. 5 E.

County. Liberty

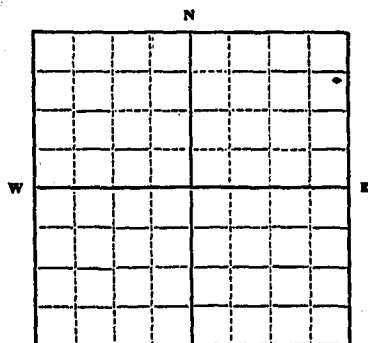
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
MAY 21 1963  
STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Henry Hauke, of Cherry Montana,  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE, NE, NE

NE 1/4 Sec. 3 T. 33 R. 5 E.

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based. House and stock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Approx. 1920  
Continuous since then
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 gal per minute minimum
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Approx. 1920
8. The depth of water table. 110 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. approx. 250 ft. depth - 6 in. casing
10. The estimated amount of groundwater withdrawn each year. 182,500 gal
11. The log of formations encountered in the drilling of each well if available. not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. none

Signature of Owner. Henry HaukeDate. May 20, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

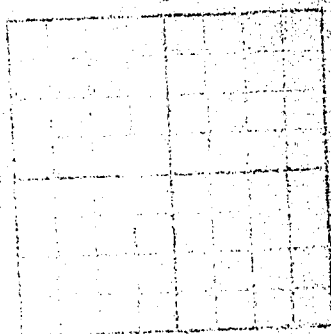
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

4397



LIBERTY  
MONTANA

83397



STATE OF MONTANA,  
County of Liberty,

Filed May 20 1963  
at 11:15 o'clock A M.

A County Clerk

By \_\_\_\_\_ Deputy

Fee \$2.00

File No. ....

DUPLICATE

T. 33 N. R. 5 E. 16

County LIBERTY

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

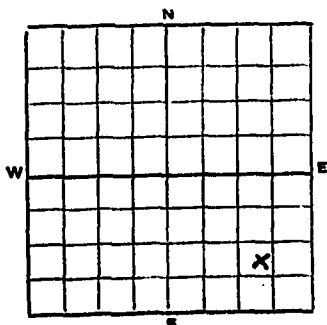
RECEIVED  
JAN 8 1964

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA  
By RAN C STEVEN, of Box 706 Big Sandy  
(Name of Appropriator) (Address) (Town)

County of LIBERTY State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 SE Sec 16 T.33 R.5

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based  
STOCK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1955 - CONTINUOUS  
USE

4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
5 GAL PER MIN.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
NOT AVAILABLE

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
3" CYLINDER WITH PUMP JACK & ELECTRIC MOTOR

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
APPROXIMATELY 1955

8. The depth of water table  
280 FEET

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater  
300' DEEP - DRILLED WELL, CASED WITH 6" GALV. PIPE, CYLINDER AT 280' LEVEL AND OPERATED WITH A ROD LINE FROM SURFACE USING A PUMP JACK & ELECTRIC MOTOR

10. The estimated amount of groundwater withdrawn each year  
50000 GAL.

11. The log of formations encountered in the drilling of each well if available  
NOT AVAILABLE

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record  
NOT AVAILABLE

Signature of Owner RAN C STEVEN

Date DEC 30, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

27665

1

File No. \_\_\_\_\_

T. 33 R. 5 S. 19

DUPLICATE

County. Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 20 1963

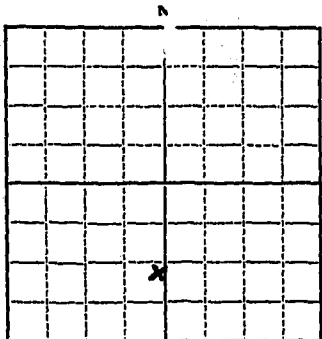
STATE ENGINEER

1. Ben Drew  
(Name of Appropriator)of \_\_\_\_\_  
(Address)

(Town)

County of LibertyState of Montana

have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 19 Sec. 19 T. 33 R. 5

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based. Domestic and livestock use3. Date or approximate date of earliest beneficial use; and how continuous the use has been.  sometime in the early twenties4. The amount of groundwater claimed (in miner's inches or gallons per minute). 10 gals5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. not used for irrigation6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Pump hole & electric motor7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. sometime in the early twenties8. The depth of water table. 180 ft9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Depth is approximately 230 ft. Cased with 6 inch galvanized casing10. The estimated amount of groundwater withdrawn each year. about 400,000 gals11. The log of formations encountered in the drilling of each well if available. not available12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. not availableSignature of Owner. Ben DrewDate. Dec 18, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

10880

STATE OF MONTANA  
County of Liberty, ss.

Filed Dec 18 1963  
at Liberty o'clock P.M.  
Allen Greene  
County Clerk

By [Signature] Deputy  
Fee \$ 2.00

84163  
181123  
C. J. [Signature]

2000 15 2000 15 25 12

File No. \_\_\_\_\_  
DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

T. 33 R. 5

County LIBERTY

RECEIVED

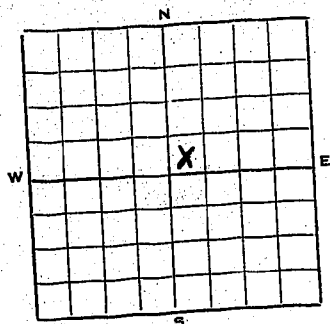
JAN 6 1964

STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. RAE C & MARTHA E STAVEN of Box 706 Big Sandy  
(Name of Appropriator) (Address) (Town)  
County of LIBERTY State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N.E. 1/4 SW Sec 20 T33 R5

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based  
STOCKWATER
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
1930 - CONTINUOUS  
USE
4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
3 GAL PER MINUTE
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
NOT APPLICABLE
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
2" PUMP - WITH PUMP LOCK & MOTOR
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
APPROXIMATELY 1930
8. The depth of water table  
15 - 20 FEET
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater  
DUG WELL 25' DEEP, CASED WITH  
42" GALV. CULVERT
10. The estimated amount of groundwater withdrawn each year  
35000 - 50000 GAL
11. The log of formations encountered in the drilling of each well if available  
NOT AVAILABLE
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record  
NOT AVAILABLE

Signature of Owner

Rae C Staven Martha E Staven

Date Dec 30, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

24564





GW

Approved Stock Form—State Publishing Co., Helena, Montana—38687

File No. ....

T. 33N R. 5E

DUPLICATE

County. Liberty

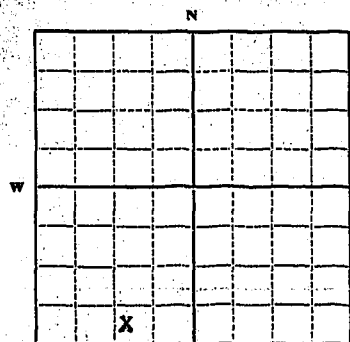
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 13 1963  
STATE ENGINEER

1. IDA YURMAN KERR of BOX 4245 CHESTER  
(Name of Appropriator) (Address) (Town)  
County of LIBERTY State of CHESTER  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 22 Sec. 22 T. 33 R. 5

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based. HOUSEHOLD FARM SICK WATERING, IRRIGATING
3. Date or approximate date of earliest beneficial use, and how continuous the use has been. 1928. Well has been in continuous use and is now being used daily.
4. The amount of groundwater claimed (in miner's inches or gallons per minute). About two gallons per. minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. 1 to 2 acres garden Ida Yurman
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Electric motor driven deep well pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1928
8. The depth of water table. 320 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. none
10. The estimated amount of groundwater withdrawn each year. 300,000 gallons
11. The log of formations encountered in the drilling of each well if available. Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None

Signature of Owner

*Ida Yurman Kerr*

Date December 11, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

8927

RECEIVED

84087

STATE OF MONTANA } ss.  
County of Liberty,

Filed Dec 11 1963

at 2:00 o'clock P. M.

Calvin D. Davis  
County Clerk

By \_\_\_\_\_ Deputy

Fee \$ 2.00

RECEIVED  
21 FEB 1964

File No. \_\_\_\_\_

DUPLICATE

T. 33 R. 5

County

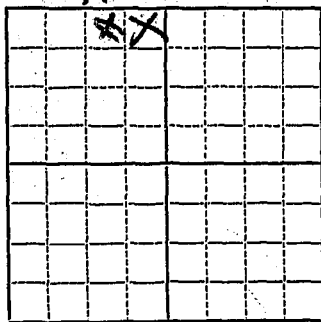
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Liberty  
**RECEIVED**  
JAN 6 1964  
STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. *E. M. Cole*  
*E. M. Cole* (Name of Appropriator), of *Shester* (Address)  
County of *Liberty* State of *Mont* (Town)  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



*now 1/4* Sec. *25* T. *33* R. *5*

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based *Line feed and grain*

3. Date or approximate date of earliest beneficial use; and how continuous the use has been *Drilled and used about 12 years*

4. The amount of groundwater claimed (in miner's inches or gallons per minute) *20 gals*

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof *none*

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal *Electric Pump*

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater *about 12 years*

8. The depth of water table *25 ft*

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater *170 ft*

10. The estimated amount of groundwater withdrawn each year *150,000 Gals*

11. The log of formations encountered in the drilling of each well if available *none*

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

*E. M. Cole*Date *12-30-63*

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24577

84305

STATE OF MONTANA } ss.  
County of Liberty

Filed Dec 30 1963

at 2:15 o'clock P. M.

William Greiner County Clerk

By John A. Thompson Deputy

Fee \$ 2.00

Subscribed and sworn to before me this 30th day of December 1963, at the County of Liberty, State of Montana.

Notary Public for Montana

Witness my hand and the seal of my office this 30th day of December 1963.

Notary Public for Montana

My commission expires on \_\_\_\_\_

Notary Public for Montana

Notary Public for Montana

Notary Public for Montana

OW

Approved Stock Form—State Publishing Co., Helena, Montana—38647

File No. \_\_\_\_\_

T. 33 N. R. 5 E. 25

DUPLICATE

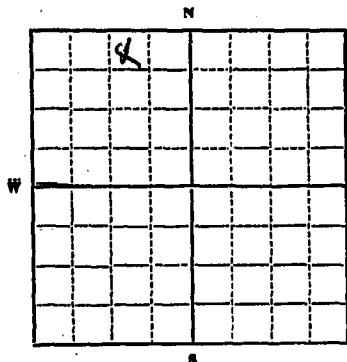
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

County Liberty  
**RECEIVED**  
JAN 8 1964  
STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William D. Gale, of Chester (Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana law in effect prior to January 1, 1962, as follows:



in W. 1/4 Sec. 25 T. 33 R. 5

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Limestone + Uranium

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Drilled and used about 12 years

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 Gals

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Drilled about 12 years ago

8. The depth of water table 30 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 170 ft

10. The estimated amount of groundwater withdrawn each year 100,000 Gals

11. The log of formations encountered in the drilling of each well if available none

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

William D. Gale

Date

12-30-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24580



STATE OF MONTANA  
County of Liberty.

File also 30

at 9:15

*Gilean*

2

BY Alana K

Page: 27

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

1. *Chlorophyll a* (Chl *a*)

10

*Journal of Management Studies*, 19(1), 67-80.

43

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26

Ms. B. 1. 23 v. 9

There is a large number of persons in the city who are in the habit of visiting the city of Washington.

1000 lbs. more in the summer of 1885 than in 1884. It was found that the deer were much more numerous in the summer of 1885 than in 1884. It was found that the deer were much more numerous in the summer of 1885 than in 1884.

can be brought into existence by money will

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38687

File No. \_\_\_\_\_

T 33

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R 5 E

DUPLICATE

County

Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

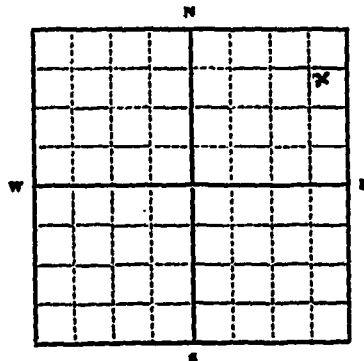
RECEIVED  
DEC 20 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Ben Orw of Chester  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec 31 T. 33 R. 5

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Sweetener use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1955 used every summer & fall

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 16 gals

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof not used for irrigation

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pump head and stationary gasoline engine

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1955

8. The depth of water table approximately 180 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Depth is approximately 215 ft. Cased with 6 in galvanized casing

10. The estimated amount of groundwater withdrawn each year Unknown

11. The log of formations encountered in the drilling of each well if available not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record not available

Signature of Owner

Ben Orw

Date

Dec 18, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

10881.

STATE OF MONTANA } ss  
County of Liberty, }

County of Liberty.

Filed Dec. 18 1963

at 4:15 o'clock P. M.

*Allen Greene*  
County Clerk

By \_\_\_\_\_ Deput

Fee \$ 2.00

**THE**

1. The first group of variables includes the demographic characteristics of the respondents, such as age, gender, and education level. These variables are used to control for potential confounding factors that may influence the relationship between the independent and dependent variables.



RECEIVED

SEP 21 1972

County Liberty

DRILLER'S LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARDMONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATIONNOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner August LassAddress Chester, Mont.Box 232Date well started August 18 1972completed August 27 1972Type of well Drilled

(Dig, driven, bored or drilled)

Equipment used Churn

(Churn drill, rotary or other)

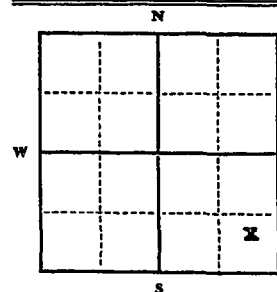
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

\*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL 438000

Well No.	Depth of Casing or Collar	From (Feet)	To (Feet)	PERFORATIONS		
				From (Feet)	To (Feet)	
65/8 201b		331	slotted 270	270	310	



Static water level 20.5 ft.\*  
Pumping water level 0 ft.\*  
at two gallons per minute,  
measured minutes after pumping  
began.

\*Measured from ground level.

Well developed by bailingfor two hours.Power            Pump            HP

Remarks: (Gravel packing, cementing,

packers, type of shutoff)           gravel packedSE 1/4 SE 1/4 Sec 33T. 33 N 5 R 5 E           INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
EACH SMALL SQUARE REPRESENTS 40 ACRESDriller's Signature Harold AtkinsDriller's Address Shelby, Mont. Box 677LICENSE NO 99331 Show exact depth of bottom

51, 433

10-10-68

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38627

File No.

S.E. 1/433 T. 33 R. 5

DUPLICATE

County Liberty

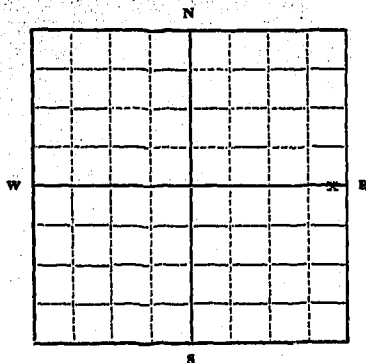
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 13 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. August Laas, of Chester, (Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 33, T. 33, R. 5

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based. Home use.  
Watering some livestock, and crop spraying
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. The original homesteader put it in approximately 1910. In continuous use every since.
4. The amount of groundwater claimed (in miner's inches or gallons per minute). Unknown
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. It is a deep well, with an electrical pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Everything was completed when we acquired it.
8. The depth of water table. 285 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 6 inch casing with a four inch pipe and an electrical pump to draw the water up approximately 285 feet.
10. The estimated amount of groundwater withdrawn each year. 36,000 gal.
11. The log of ~~operations~~ encountered in the drilling of each well if available. We don't know.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner August Laas

Date Dec. 11, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

8924



840/83

STATE OF MONTANA } ss  
County of Liberty.

Filed Dec 11 1963  
at 1:40 o'clock P.M.  
Allen Greiner  
County Clerk  
By Dana Hernandez  
Deputy

Fee \$ 2.00

File No. \_\_\_\_\_

T. 33N R. 5E

DUPLICATE

County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

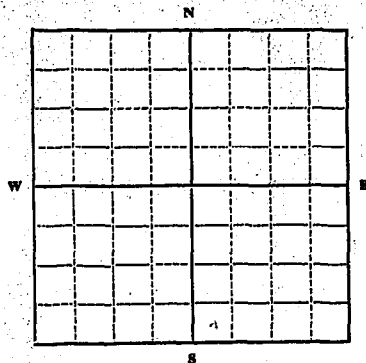
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
JAN 6 1964

STATE ENGINEER

I, Raphael J. Hull, of Chester (Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SW 1/4 Sec. 35 T. 33N R. 5E

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based Stock Use
3. Date or approximate date of earliest beneficial use, and how continuous the use has been Approximately 1914
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gallons Perminute when used
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Not Used for Irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
With Rods & Cylinder System with Pump Jack when used - Presently Not used
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Approximately 1914
8. The depth of water table 200  
307 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 7 In. Galvanized Casing, 307 feet Deep.  
Withdrawn with Cylinder System on Pump Jack when used
10. The estimated amount of groundwater withdrawn each year 550,000 Gallons when used
11. The log of formations encountered in the drilling of each well if available Not Available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Not Available

Signature of Owner

Raphael J. HullDate Dec. 27, 1963

Three copies to be filed by the owner with the County Clerk order of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24528

842434  
STATE OF MONTANA  
County of Liberty, ss.

Filed Dec 27 1961  
at 10:30 o'clock A. M.

Alfred Green  
County Clerk

By Clare Thompson  
Deputy

Fee \$ 2.00

RECEIVED  
EXHIBITS TO CASE NO. 100-10000  
JAN 10 1962  
FBI - BUTTE

# GROUNDWATER INDEX

Page 1 of 1

County Liberty Twp. 33 N Rge. 6 E

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File No. \_\_\_\_\_

T. 33 S. 6 East

DUPLICATE

County Liberty

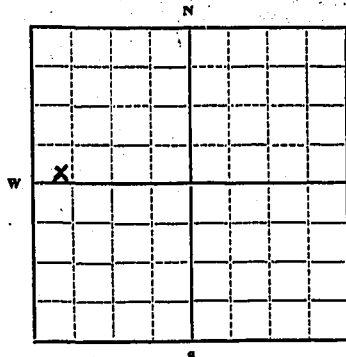
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights DEC 10 1963

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Charles Green, of \_\_\_\_\_  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 22 T 33 R 6

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based Livestock household & irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Oct 1st 1963
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 gallons per min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Lawn & garden only less than 1 acre
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Aug 15 - 1961 Sept 15 - 1961
8. The depth of water table 250 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater drilled well started eight inches hole finished 6 inches to depth of 575 feet
10. The estimated amount of groundwater withdrawn each year 350,000 gallons
11. The log of formations encountered in the drilling of each well if available At 65 feet very fine sand then was banded off at 130 feet more water at 1350 feet sand and water at 125 feet Eagle Sandstone at 450 feet lots of water
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record \_\_\_\_\_

Signature of Owner Charles GreenDate 12-9-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

8364

DATE

84067

STATE OF MONTANA  
County of Liberty

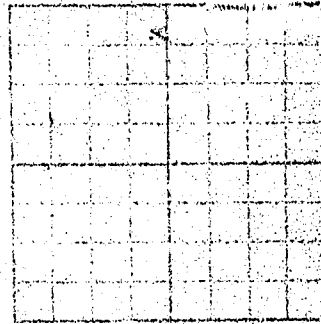
Filed Dec 9 1963

at 500 P. M.

By John H. [Signature] County Clerk

By [Signature] Deputy

Fee \$ 2.00



These sections are reserved to the public and shall not be sold or otherwise disposed of until the public interest therein is satisfied.

- 1. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 2. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 3. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 4. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 5. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 6. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 7. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 8. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 9. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.
- 10. The amount of compensation to be paid to the surveyor for his services shall be ascertained by the board of commissioners of the county in which the survey is made.

File No. \_\_\_\_\_

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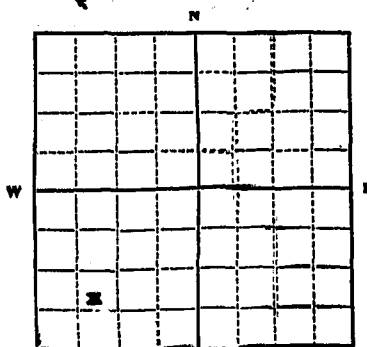
T. 33 R. 4  
County LibertySTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERRECEIVED  
JAN 6 1964

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Michael J. Hull, of Chester Mont.  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Mont.  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

SW 1/4 Sec. 30 T 33 R. 4

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based. drinking.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Oct. 1950, 13 yrs.
4. The amount of groundwater claimed (in miner's inches or gallons per minute). Eight gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. working head at present
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Sept 1950 Commenced drilling  
Oct 1950 withdrawing for use
8. The depth of water table. 40 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. drilled, 7 inch hole, 136 ft depth
10. The estimated amount of groundwater withdrawn each year. 250,000 gallons per year
11. The log of formations encountered in the drilling of each well if available. none.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. none

Signature of Owner. Michael J. HullDate. 12-26-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

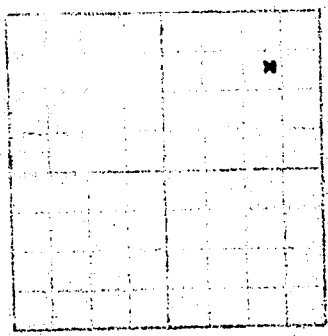
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24522



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SECRETARY 1 UNIT

LYSIA

84224

STATE OF MONTANA  
 County of Liberty

Filed Dec 26 1934

at 12:25 o'clock P. M.

By John J. Turner County Clerk

Fee \$ 2.00

NOTICE

NOTICE

LYSIA

AD

NOTICE OF THE BOARD OF COUNTY COMMISSIONERS  
 OF THE COUNTY OF LIBERTY, MONTANA  
 TO THE PEOPLE OF THE COUNTY OF LIBERTY  
 WHEREAS the Board of County Commissioners of the County of Liberty, Montana, do hereby certify that the following is a true and correct copy of the original of the same as the same appears in the records of the Board of County Commissioners of the County of Liberty, Montana, to-wit:

File No. \_\_\_\_\_

T. 33N R. 6E

DUPLICATE

County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

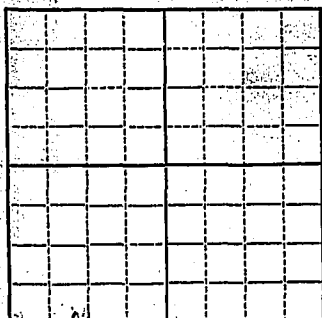
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
JAN 6 1964

STATE ENGINEER

I, Raphael J. Hull, of Chester (Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 31 T. 33N R. 6E

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based Stock & Domestic Use
3. Date or approximate date of earliest beneficial use, and how continuous the use has been 1910
4. The amount of groundwater claimed (in miner's inches or gallons per minute) No. 1 - 15 Gallons Per Minute  
No. 2 - 8 Gallons Per Minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not Used for Irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal No. 1 - Cylinder Pump with Rods, Pump Jack  
No. 2 - Centrifugal Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1910
8. The depth of water table No. 1 - 8 Feet to 24 No. 2 - 8 ft to 16 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6x6 dug well, first 8 ft. Concrete, next 8 feet Cribbing, final 8 ft. 4x4 cribbing. Withdrawn with Jack & rods.  
No. 2 - 4 ft. in Diameter Brick cribbing 16 feet deep. Withdrawn with 2 In. Centrifugal Pump.
10. The estimated amount of groundwater withdrawn each year No. 1 - 500,000 gallons  
No. 2 - 250,000 gallons
11. The log of formations encountered in the drilling of each well if available Not Available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Not Available

Signature of Owner

Raphael J. HullDate Dec. 27, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triuplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24527

Filed Dec 27 1965  
at 10:30 o'clock A. M.  
Allen Thurston  
County Clerk  
By Alana Thompson  
Deputy  
Fee \$ 2.00

Filed Dec 27 1965  
at 10:30 o'clock A. M.  
Allen Thurston  
County Clerk  
By Alana Thompson  
Deputy  
Fee \$ 2.00

Fee \$ 2.50

... ..

*Journal of Management Education* 30(6)p. 789-804  
© The Author(s) 2006

[illegible]

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971). The concentration of chlorophylls was expressed as  $\mu\text{g mL}^{-1}$  of the sample.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1010 spectrophotometer. The concentration of chlorophyll was expressed as  $\mu\text{g mL}^{-1}$  of the sample.

1. *Chlorophyll a* (Chl *a*)

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971). The concentration of chlorophylls was expressed as  $\mu\text{g mL}^{-1}$  of the sample.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1601 UV-Visible Spectrophotometer. The concentration of chlorophyll was expressed in  $\mu\text{g mL}^{-1}$ .

Figure 1. The effect of the concentration of the  $\text{H}_2\text{O}_2$  solution on the amount of the released  $\text{H}_2\text{O}$  from the  $\text{H}_2\text{O}_2$ -loaded hydrogel. The amount of the released  $\text{H}_2\text{O}$  was measured by the weight difference of the hydrogel before and after the release. The concentration of the  $\text{H}_2\text{O}_2$  solution was 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, and 1.0 wt. %.

1. *Chlorophyll *a** and *Chlorophyll *b** were determined by the method of Arar and Collins (1971) using a Shimadzu 1601 UV-Visible Spectrophotometer. The concentration of chlorophyll was expressed in mg g<sup>-1</sup> of dry weight.

1. *Chlorophyll a* (Chl *a*)

100

1000

Figure 1 illustrates the experimental setup. A subject is seated at a table, looking at a video screen. A camera is positioned above the screen, and a light source is positioned to the left. A scale bar is shown below the screen. The diagram is labeled with 'Subject', 'Video Screen', 'Camera', 'Light Source', and 'Scale Bar'.

... ..

Figure 1 shows a schematic diagram of a 2D hexagonal lattice. The lattice is composed of solid black circles representing atoms. A central atom is labeled 'A'. To its right is an atom labeled 'B'. Above 'A' is an atom labeled 'C'. Below 'A' is an atom labeled 'D'. To the left of 'A' is an atom labeled 'E'. To the right of 'B' is an atom labeled 'F'. The lattice is bounded by a dashed line. The top boundary is labeled 'y = 0'. The bottom boundary is labeled 'y = L'. The left boundary is labeled 'x = 0'. The right boundary is labeled 'x = L'. The lattice is divided into two regions by a vertical dashed line at x = L/2. The left region is labeled 'x < L/2' and the right region is labeled 'x > L/2'.

10-63  
J. M. [Signature]  
Unit Clerk  
Deputy

WILLIAM DOUGLAS - 1. 29. 1917 was awarded the Distinguished Service Cross for his gallantry in the field.

1. The above information was obtained from the files of the FBI, New York Office, and is being furnished to you for your information.

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File No. \_\_\_\_\_

DUPLICATE

T. 33N R. 6E

County Liberty

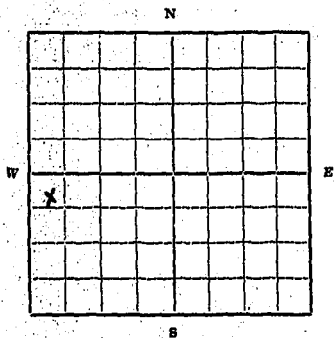
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 20 1962

Declaration of Vested Groundwater Rights  
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Harold Flogum of Chester, Montana  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 32 T. 33 R. 6E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Stock & Household Use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1952
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 Gallons per hour
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not used
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric 2 H. P. Gasoline Engine
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Started and finished in the year 1952.
8. The depth of water table 20 Feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 20 feet deep, size 4' x 4'.
10. The estimated amount of groundwater withdrawn each year 25,000 Gallons
11. The log of formations encountered in the drilling of each well if available Not available.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

Signature of Owner Harold Flogum

Date Dec. 19, 1962

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

2804



# GROUNDWATER INDEX

Page 2 of 2

County Liberty

Twp. 33 N

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File No. \_\_\_\_\_

T. 33N R. 7E

DUPLICATE

County Liberty

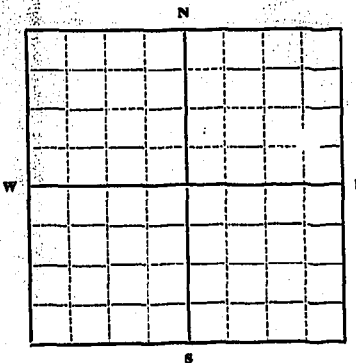
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964  
STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. David F. James, of Joplin, M  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 1 T. 33N R. 7E

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based.  
Domestic Use and Trees & Garden
3. Date or approximate date of earliest beneficial use, and how continuous the use has been 1955 - Continuously Since that time. Earlier used old well nearby since 1912.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 Gallons Per Minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Only Garden & Trees
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.  
Submersible Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Original well in 1912 - Renovated in 1955
8. The depth of water table 100 Feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well is 190 Feet Deep. 6 In. Galvanized Casing. Withdrawn with Submersible Pumping System on Electricity. 1 1/2 in. Withdrawal Pipe
10. The estimated amount of groundwater withdrawn each year 250,000 Gallons Per Year
11. The log of formations encountered in the drilling of each well if available Water Vein is at 165 feet. Light vein at 120 feet.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Not Available

Signature of Owner

Date Dec. 31, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24636



12-31-31

STATE OF MICHIGAN  
County of Liberty

12-31-31

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STATE OF MICHIGAN  
County of Liberty

Filed 12-31-31

at 4:50 o'clock P.M.

Arthur J. Jones

John H. Jones

Fee \$2.00

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T. 31N R. 7E

County Liberty

ADMINISTRATION OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

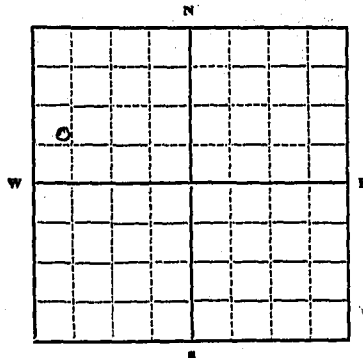
RECEIVED  
JUN 24 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. E. W. Seidlitz of Chester, Montana  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 NW 1/4 Sec. 3 T. 31N R. 7E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Stock Water Well
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1951 -- used continuously since that time
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 12 Gallons per Minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Used only for Stock Watering
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 2 In. Galvanized Pipe, Pump Jack & Rods with Gasoline Air Cooled Engine
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1951
8. The depth of water table 50 Feet -- Total Depth 150 Feet
9. ~~As far as it may be available~~, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 Inch Galvanized Casing and 2 Inch Galvanized Pipe
10. The estimated amount of groundwater withdrawn each year 150,000 Gallons each year
11. The log of formations encountered in the drilling of each well if available Not Available
12. Such other information of a similar nature as may be ~~needed~~ in carrying out the policy of this act, including reference to book and page of any county record None

Signature of Owner E. W. Seidlitz

Date June 21, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

4743

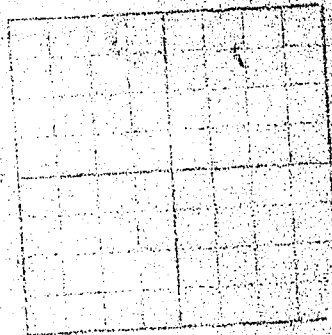
83491

STATE OF MONTANA  
County of Liberty

Filed June 21 1963  
at 3:35 o'clock P. M.

Aileen Green  
County Clerk  
By Alvin Thompson  
Deputy

Fee \$ 2.00



STATE OF MONTANA  
County of Liberty  
June 21, 1963  
Aileen Green  
County Clerk

21 JUNE 1963  
CLERK

File No. ....

T. 33 R. 1 E

DUPLICATE

County. Silver

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

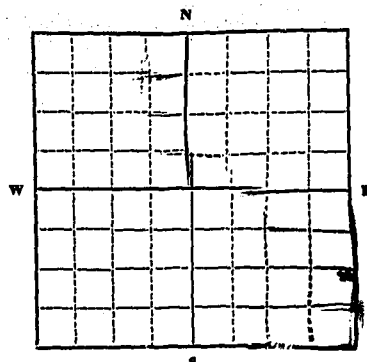
APR 19 1963

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

ASSISTANT  
STATE ENGINEER

1. Roy James Miller, of Box 41 Joplin  
(Name of Appropriator) (Address) (Town)  
County of Silver State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S.E. 1/4 Sec. 5 T. 33 R. 1 E

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based. Home use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. October 1904
4. The amount of groundwater claimed (in miner's inches or gallons per minute). approximately 7 gal. per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Not used for irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Regular pump and electric motor
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. October 1957
8. The depth of water table. 249 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. drilled - 5 inch casing - 118 ft deep
10. The estimated amount of groundwater withdrawn each year. About 100 gal. per day
11. The log of formations encountered in drilling of each well if available. unknown
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None kept

Signature of Owner. Roy James MillerDate. Nov. 18. 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

4212

THIS CASE TO BE HEARD BY THE COURT WITH THE COUNTY CLERK PRESENT AS THE COURT IN APRIL 1963

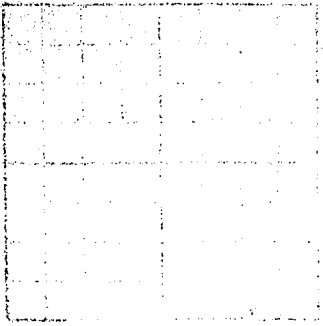
Signature of Clerk

Notarized in Book and Index of this County Clerk's Office

It is the duty of the County Clerk to keep a true and correct record of all proceedings in the County Court.

He is also to keep a true and correct record of all proceedings in the County Court.

STATE OF MONTANA, } ss.  
County of Liberty,  
Filed April 18 1963  
at 12:50 o'clock P. M.  
Robert H. Davis  
County Clerk  
By \_\_\_\_\_ Deputy  
Fee \$ 2.00



Notarized in Book and Index of this County Clerk's Office

Declaration of Assets and Liabilities

(Under Oath and Affirmation)

State of Montana Record

File No. \_\_\_\_\_

DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Withdrawal of Groundwater

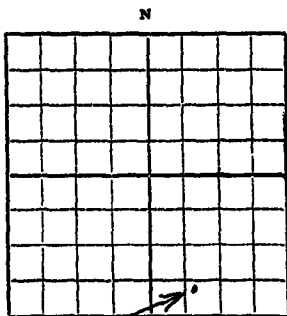
Chapter 22, Montana Session Laws, 1961

RECEIVED  
JAN 8 1962

STATE ENGINEER

1. Naomi Hansen of Deer Creek  
(Name of Appropriator) (Address) (Town)

County of Deer State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 7 T33N R7E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based House

Leach Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Continuous since 1948

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 50 gal per minute or all it will produce

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Portion of Sec. 19 of T33N R7E

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric Pump, location, Deer Creek

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1948

8. The depth of water table 20 ft.

9. So far as it may be available, the type, size and depth of Hand-dug well 4 ft. deep by 4 ft. diameter or the general specifications of any other works for the withdrawal of groundwater Hand-dug well 4 ft. deep by 4 ft. diameter

10. The estimated amount of groundwater withdrawn each year We use all it we depend on

11. The log of formations encountered in the drilling of each well if available Water in blue clay formation

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Naomi Hansen

Date 12-27-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

24070

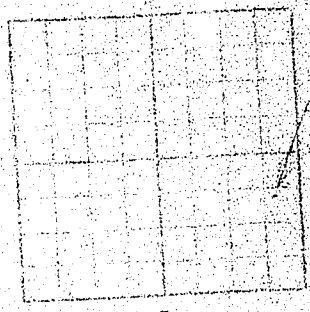
84298

STATE OF MONTANA } ss.  
County of Liberty.

Filed Dec 30 19 63  
at 1:00 o'clock P. M.

By Gilbert Shuman  
County Clerk

Fee \$ 2.00  
L. Day



Sec. 1. If  
the party named herein, being  
legally competent, has been  
advised of the contents of  
this instrument, and has  
declined to execute the same,  
the undersigned, being a  
competent and disinterested  
person, has refused to  
act as a witness to the  
execution of this instrument,  
and the same is not  
valid.

The means of obtaining a copy of this instrument is to apply to the County Clerk of the County of Liberty, Montana, who will furnish a copy of the same for a fee of \$1.00 per copy.

Witness my hand and seal of office this 30th day of December, 1963.

Notary Public for the State of Montana  
My Comm. Expires Dec 31, 1964



File No. \_\_\_\_\_

T 33 N 7 E 9  
County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

MONTANA WATER RESOURCES BOARD  
**RECEIVED**  
NOV 30 1967

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

1. We, RODPPH and LOIS FOSTER and ROBERT E. and MARLENE FOSTER, tenants in common, all of Joplin, Montana, County of Liberty, State of Montana, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

2. The beneficial use on which the claim is based on our homes and ranches.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1930 and in continuous use on the following described property since that date:

Southeast  $\frac{1}{4}$  of Section 9, Township 33 North, Range 7 East (Robert E. and Marlene Foster)

\_\_\_\_\_  $\frac{1}{4}$  Sec. \_\_\_\_\_ T \_\_\_\_\_  
R \_\_\_\_\_

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

and  
Southwest  $\frac{1}{4}$  of the Northeast  $\frac{1}{4}$  of Section 17, Township 33 North, Range 7 East due East across the said Southwest  $\frac{1}{4}$  of the Northeast  $\frac{1}{4}$  and continuing due East across the Southeast  $\frac{1}{4}$  of the Northeast  $\frac{1}{4}$  to the Section Line between Sections 17 and 16 of Township 33 North, Range 7 East MPM. (Ralph and Lois Foster)

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1000 Gallons per minute.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: On the lands above described.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: About 1930.

8. The depth of water table: 15 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Dug well - 4 feet diameter with tunnel underneath.

10. The estimated amount of groundwater withdrawn each year: 2,500,000 gallons per year.

11. The log of formations encountered in the drilling of each well if available: Sand rock - Colorado blue shale.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book

12. (Con't) and page of any county record: Usage established by Edwin C. Foster on lands owned by him.

Signature of Owners Rolph Foster

Lois Foster

Robert E. Foster

Marlene Foster

DATE \_\_\_\_\_

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Please answer all questions, if not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

STATE OF MONTANA ) ss.  
COUNTY OF FLATHEAD)

ROLPH and LOIS FOSTER and ROBERT E. and MARLENE FOSTER, having first been duly sworn, depose and say that they are of lawful age and are the appropriators and claimants of the order and water right mentioned in the foregoing notice of completion of ground-water appropriation without well and the persons whose names are subscribed thereto, as the appropriators and claimants, that they know the contents of said foregoing notice and that the matters and things therein stated are true.

Rolph Foster

Lois Foster

Robert E. Foster

Marlene Foster

Subscribed and sworn to before me, this 10 day of October, 1967.

William M. Morris  
Notary Public for the State of Montana  
Residing at Columbia Falls, Montana  
My Commission expires Sept. 2, 1970

mailed in envelope "Office of County Clerk & Recorder,  
Liberty County, Chester, Mont. 59522"

Burden of proof on Appropriators

with or  
without  
well?  
F. J. M.  
11/29/67

88292

STATE OF MONTANA, } ss.  
County of Liberty,

Filed 11-28, 19 67

at 1:30 o'clock P. M.

Allen Greiner  
County Clerk

By Dora Thimbigner  
Deputy

Fee \$ 2.00

Form No. 18  
8-60

T. 33 R. 7E

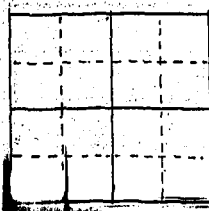
County Liberty

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
NOV 21 1961

STATE ENGINEER

WATER WELL LOG



Owner George Thielman Address Joplin, Montana

Driller \_\_\_\_\_ Address \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed July 1955

Location: 111, 12 T., 33 R., 7 sec., 54

Type of well Drilled Equipment used Rotary  
(Dug, driven, bored, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒

Industrial ☐ Drainage ☐ Other \_\_\_\_\_

Casing: 1 ft. to 90 ft. Type Galvanized Size 4 1/2"

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. \_\_\_\_\_ to ft. \_\_\_\_\_. Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations \_\_\_\_\_

Static Water level, for non-flowing well: 110 feet.

Shut-in pressure, for flowing well: \_\_\_\_\_ lb./sq. in. on: \_\_\_\_\_ (date)

Pumping water level \_\_\_\_\_ feet at 3 gal. per min.

How tested: timed by use of bucket

Length of test 36 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

GW

Approved Stock Form—State Publishing Co., Helena, Montana—36687

File No.

T. 33 N. R. 7E

DUPLICATE

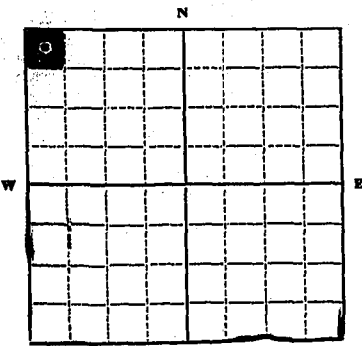
County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Declaration of Vested Groundwater Rights**  
(Under Chapter 237, Montana Session Laws, 1961)

**RECEIVED**  
DEC 12 1963  
STATE ENGINEER

I, Bert W. Alley, of R.R. #1 Joplin  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 12, T. 33 N. R. 7E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based.  
Residential use—Household, garden, livestock.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.  
April 1, 1956. Steady and continuous every since.
4. The amount of groundwater claimed (in miner's inches or gallons per minute).  
20 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.  
Bert W. Alley—irrigation of garden and lawn on land located on NE 1/4 of the NE 1/4 of section 12, Township 33, Range 7 E.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.  
Subsided well (1 hp) as well as indicated on map on file.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.  
Started and finished in April, 1956.
8. The depth of water table.  
Ninety (90) feet.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.  
Drilled with tamper drill by Charles Anderson of Shelby, Montana, using a 3 inch bit. Put down 338 feet of 6 inch steel casing. This was gravel packed with 5 yards of pea gravel.
10. The estimated amount of groundwater withdrawn each year.  
250,000 gallons.
11. The log of formations encountered in the drilling of each well if available.  
This information is not available.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.  
No other pertinent information is available.

Signature of Owner Bert W. Alley  
Date December 10, 1963.

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

8634

84076

STATE OF MONTANA ) ss.  
County of Blaine

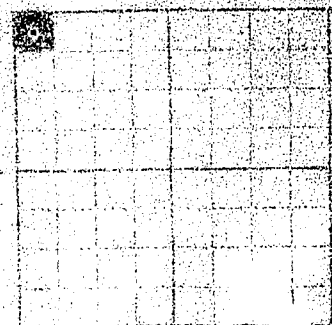
Filed Dec 10 1963

At 3:45 o'clock P. M.

Gilbert Green  
County Clerk

By David Thompson  
Deputy

Fee \$ 2.00



Notary Public for Montana  
My Comm. Expires Dec 31, 1964  
I hereby certify that the foregoing is a true and correct copy of the original as the same appears from the records of the County of Blaine, Montana.



File No. \_\_\_\_\_

T. 33<sup>N</sup> R. 7<sup>E</sup>

DUPLICATE

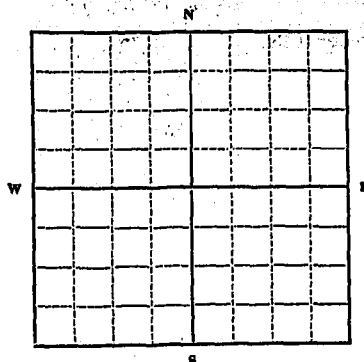
County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
OCT 15 1963

Declaration of Vested Groundwater Rights  
(Under Chapter 237, Montana Session Laws, 1961)

1. Belle D. Foster of Box 104 Jeplin  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



2. The beneficial use on which the claim is based home and commercial drinking

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1920 - continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 gallon per hour

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Turbine pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1920 to 1960

8. The depth of water table 18 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Dug well with storage cap of 50,000 gallons of water with 100 gallons per minute pump installed.

10. The estimated amount of groundwater withdrawn each year 150,000 - 200,000 per year

11. The log of formations encountered in the drilling of each well if available 15 feet of dirt - 18 feet of eagle sandstone

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record poured cement casing of approximately 15 feet to bed rock then caverns and tunnels in eagle sandstone. Demand varies daily and seasonally.

Signature of Owner

Belle D. Foster

Date

Oct 10 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise form will be rejected.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate to the Appropriator.

6397



83735

FILED FOR RECORD

Oct 14 A.D. 1963  
at 11:45 o'clock A.M. and  
recorded in book \_\_\_\_\_ of  
\_\_\_\_\_ on page \_\_\_\_\_

Records of Liberty County, Montana

*Allen L. Greener*  
County Recorder

By \_\_\_\_\_ Deputy

Fees \$ *2.00*

RECEIVED  
OCT 14 1957

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

T. 33 R. 7

County Liberty

WATER WELL LOG

X			

Owner Leo Jensen Address Chester, Montana

Driller C. Earl Heavirland Address Chester, Montana

Date Started Sept. 21, 1957 Date Completed Sept. 28, 1957

Location: Sec. 18 T. 33 R. 7  $\frac{1}{4}$  sec. N $\frac{1}{2}$ SW $\frac{1}{4}$

Type of well Drilled with Fort-Worth Spudder Equipment used Cable Tools  
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other: \_\_\_\_\_

Casing: 1500' 6" galv. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: 3' to ft. to ft. to ft.

Type of screen or perforations Bottom 24' by holes cut in casing

Static Water level, for non-flowing well: 60' from top of well. \_\_\_\_\_ feet.

Shut-in pressure, for flowing well: \_\_\_\_\_ lb./sq. in. on: \_\_\_\_\_ (date)

Pumping water level Well pumps dry \_\_\_\_\_ feet at \_\_\_\_\_ gal. per min.

How tested: with Pump-Electric

Length of test: 15 minutes to pump dry

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

Gravel packed casing

(over)

### Log of Well

[illegible]

File No. \_\_\_\_\_

DUPLICATE

T. 33N R. 7E

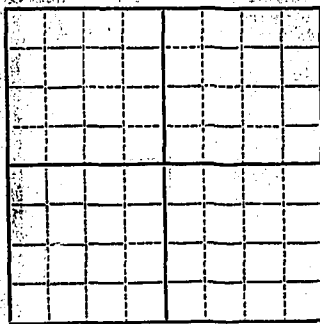
County Liberty

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964

Declaration of Vested Groundwater Rights ENGINEER  
(Under Chapter 237, Montana Session Laws, 1961)

1. Leo Jensen, of Chester, NEB  
(Name of Appropriator) (Address) (Town)  
County of Liberty State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4, Sec. 18, T. 33N, R. 7E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based. Domestic Use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1957
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 3 Gallons Per Minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Not used for Irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Cylinder Pump with rods on Electric Motor
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1957
8. The depth of water table. 130 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 7 in. Galvanized Casing, 160 feet Deep, Withdrawn with Cylinder Pump rod system on 2 in. Pipe
10. The estimated amount of groundwater withdrawn each year. 250,000 Gallons
11. The log of formations encountered in the drilling of each well if available. Not Available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. Not Available

Signature of Owner Leo JensenDate Dec. 27, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24530